

PYROBAR

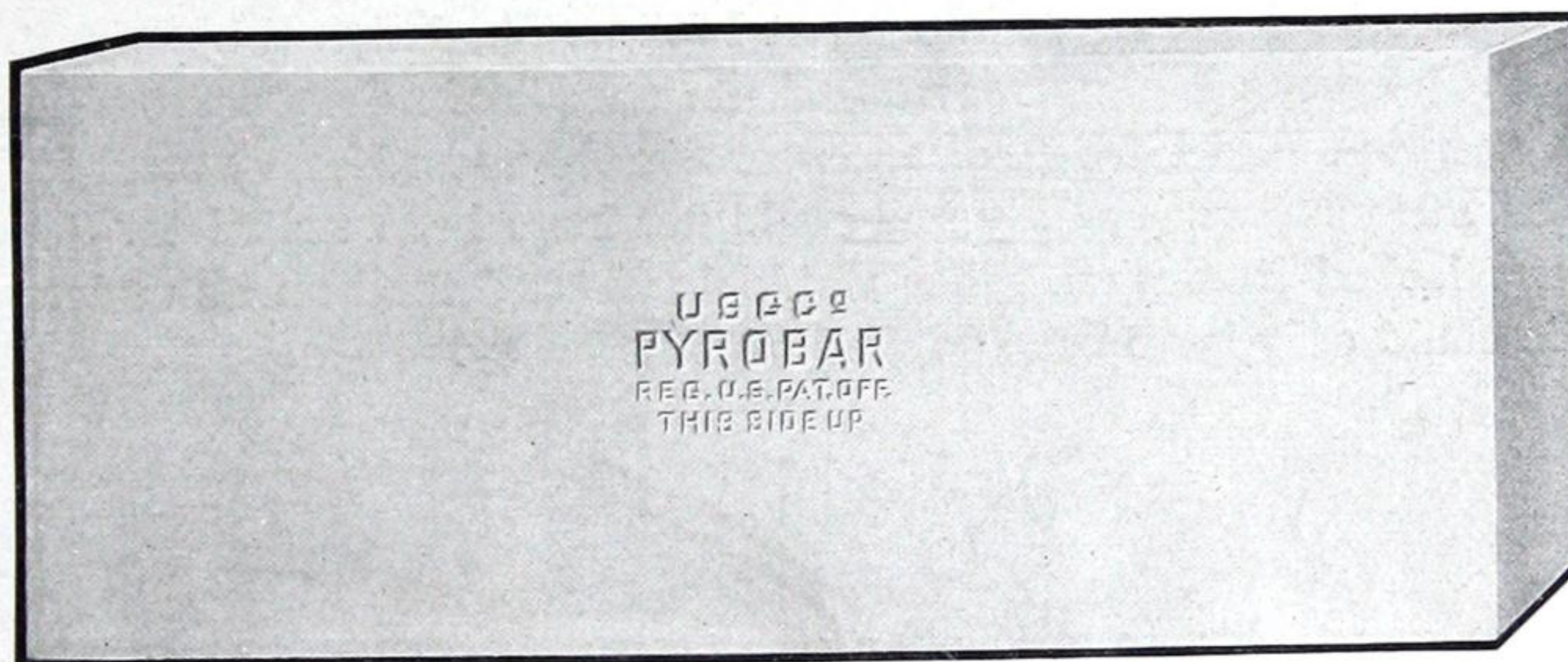
REINFORCED

GYPSUM ROOF TILE

Patented

and Ornamental Tile or Slate Covered Roofs

*Tile laid on tee
irons, spaced
30½ inches
center to cen-
ter.*



*3"x12"x30" Tile
weighing 13
lbs. per square
foot.*

An Easy, Economical Solution of a Difficult Architectural Problem

The simplicity of Pyrobar Reinforced Gypsum Roof Deck Construction as applied to ornamental, mansard, pitched and domed roofs covered with slate, Ludowici or other ornamental tile, has made possible a return to roof embellishment hardly considered feasible in fireproof structures.

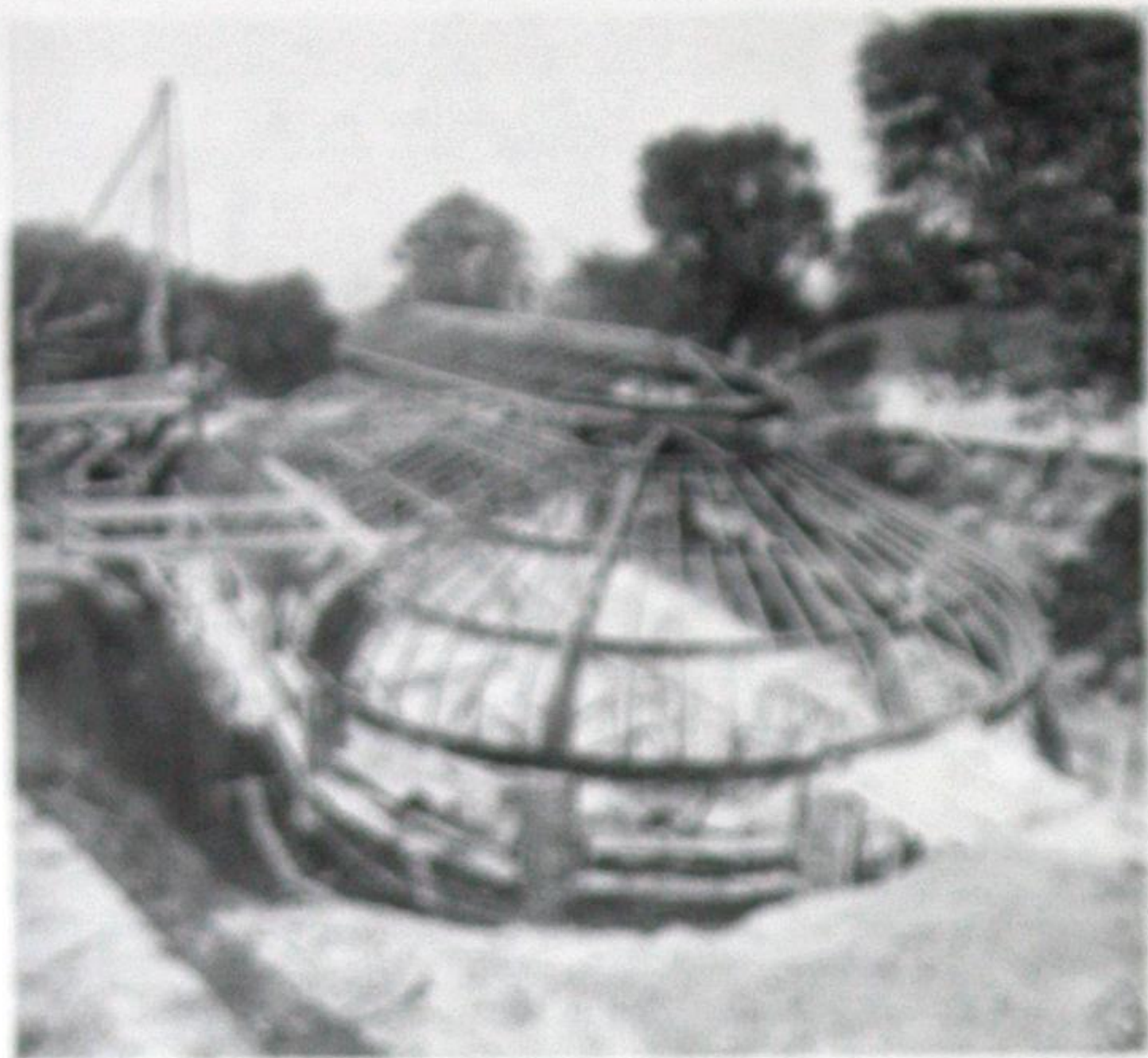
A light steel framing, some tee iron and Pyrobar Roof Tile and you have at your disposal a roof structure which can be moulded into graceful curves, relieved by dormers, pitched at pleasing angles, and covered with any roof covering. The roof is fireproof, permanent and of comparatively low cost.

The photographs reproduced here are examples of some of the recent applications of this construction. Where, except with Pyrobar Reinforced Gypsum Roof Tile, can you get a fireproof structure that can be treated as are these roofs?—one that you can mould at will?—one that any roof covering can be directly nailed to?

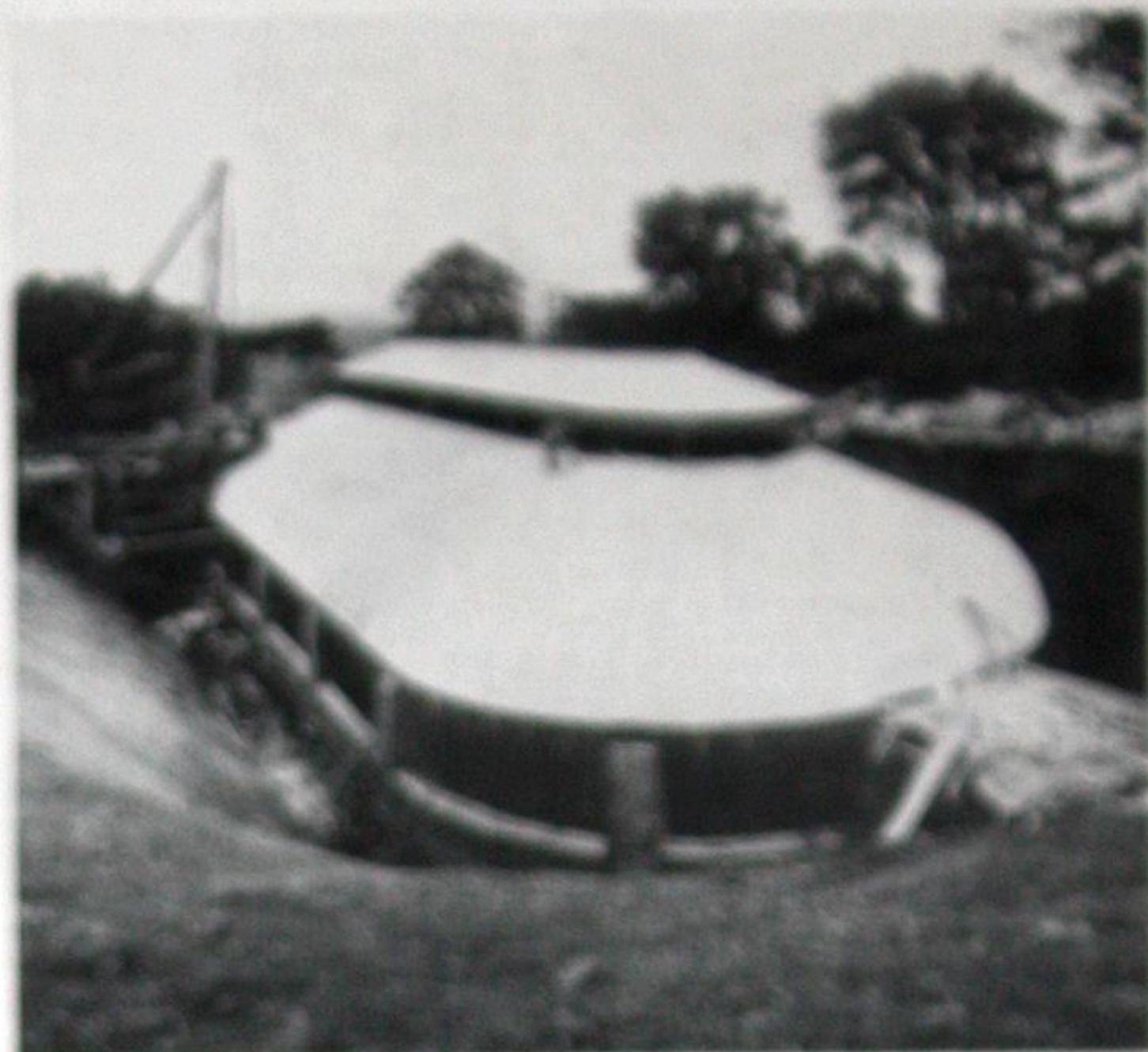
UNITED STATES GYPSUM COMPANY

205 WEST MONROE STREET :: CHICAGO, ILLINOIS

New York - Cleveland - Detroit - Minneapolis - Kansas City - San Francisco



Steel Framing ready for PYROBAR



PYROBAR Applied to Steel.

The above swimming pool for John Deere Wiman at Moline, Ill., designed by Mr. E. A. Eckerman, of Moline, and built by P. H. Lovens, Moline, is an excellent example of a fireproof roof design made possible by *PYROBAR*. Concrete would have required expensive forms and heavy steel framing, would have been extremely difficult to pour successfully and could not have been nailed to. Cement plaster and metal lath would have lacked insulation, water would have condensed on its underside, and the ornamental Ludowici tile could only have been applied with difficulty.



Adland Boulevard Auditorium.

E. M. Barrow, Architect.

Wishold Construction Co., Contractor.

Here, as in the above structure, *PYROBAR* Gypsum Roof Tile was the only logical material to use; concrete would have been impossible, as a heavy baked clay roof covering had to be nailed to these steep sides.

The *PYROBAR* Roof Tile was cut and fitted to these warped surfaces by the contractor. The joints between the tile were grouted together with gypsum grout, forming practically a "monolithic" roof deck of low conductivity, preventing heat losses in winter, making the building cooler in summer and stopping condensation troubles.

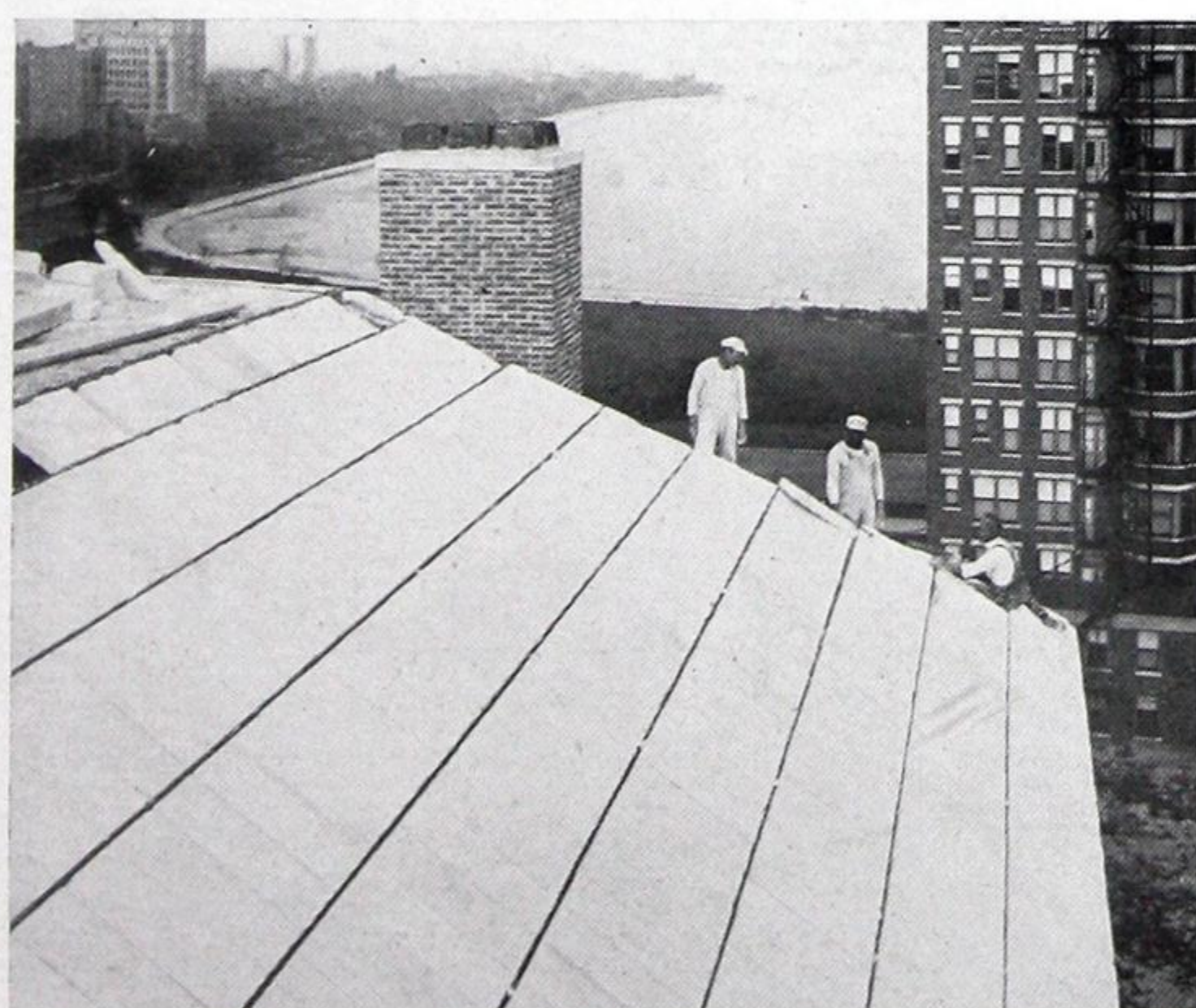
Heavy clay tile covering was applied to this roof—being nailed direct to the *Pyrobar* deck without the necessity of using combustible wood nailing strips.



F. B. Townsend, Architect.

Central Rural School, Chazy, N. Y.

Gypsum Fireproofing Co., Contractor.



Martin Apartments, Chicago, Ill.
Howard Shaw, Architect. Mueller Construction Co., Contractor.



Ceramics Building, University of Illinois.
J. M. White, Architect. A. W. Stoolman, Contractor.

PYROBAR Gypsum Roof Tile

for nailing purposes are made in two thicknesses—3 inches, solid, and 4 inches, hollow, each 30 inches long and 12 inches wide and weighing 13 lbs. per square foot. Made of gypsum, they offer both the lightest and most non-conductive fireproof roof deck known.

Economies in construction make them of lower cost "in the building" than other fireproof roof decks.

They are easily sawed and fitted to all roof requirements. They are adaptable to any type of roof covering. They can be laid under all weather conditions. In fact *PYROBAR* Gypsum Reinforced Roof Tile answer every roof deck requirement.

Where it is desired to nail roof coverings direct to the roof deck, specifications should read: " * * * roof deck to be made of *PYROBAR* Reinforced Gypsum Extra Dense Nailing Roof Tile."

Below are tables giving sizes of tee iron sub-purlins for various purlin spacings, and purlin sizes required for various spans, to support *PYROBAR* Roof Decks based on a total load of 50 lbs. per square foot. *PYROBAR* Roof Tile will carry 100 lbs. per square foot with a factor of safety of four.

SIZES OF CHANNEL PURLINS FOR PYROBAR TILE ROOFS.
TOTAL LOAD 50 LBS. PER SQ. FT. INCLUDING WEIGHT OF ROOF.

PURLIN C. TO C. IN FEET	DISTANCE CENTER TO CENTER OF TRUSSES IN FEET.							
	10	12	14	16	18	20	22	24
4'-0"	4'-5½"	5'-6½"	6'-8"	7'-9½"	7'-9½"	8'-11½"	9'-13½"	10'-15"
4'-6"	5'-6½"	5'-6½"	6'-8"	7'-9½"	8'-11½"	9'-13½"	9'-13½"	10'-15"
5'-0"	5'-6½"	6'-8"	7'-9½"	7'-9½"	8'-11½"	9'-13½"	10'-15"	12'-20½"
5'-6"	5'-6½"	6'-8"	7'-9½"	8'-11½"	9'-13½"	10'-15"	12'-20½"	12'-20½"
6'-0"	5'-6½"	6'-8"	7'-9½"	8'-11½"	9'-13½"	10'-15"	12'-20½"	12'-20½"
6'-6"	6'-8"	7'-9½"	7'-9½"	8'-11½"	9'-13½"	10'-15"	12'-20½"	12'-20½"
7'-0"	6'-8"	7'-9½"	8'-11½"	9'-13½"	10'-15"	10'-15"	12'-20½"	12'-20½"
7'-6"	6'-8"	7'-9½"	8'-11½"	9'-13½"	10'-15"	10'-20"	12'-20½"	12'-20½"
8'-0"	6'-8"	7'-9½"	8'-11½"	9'-13½"	10'-15"	10'-20"	12'-20½"	12'-25"

SPANS FOR STANDARD TEES
SPACED 30½" CENTERS
TOTAL LOAD 50 LB. PER SQ. FT.

SPAN C-C PURLINS	SIZE T IRON
UP TO 5'-3"	2¼" x 2¼" x 4.1 LB.
5'-3" TO 6'-0"	2¼" x 2¼" x 4.9 LB.
6'-0" TO 6'-6"	2½" x 2½" x 5.5 LB.
6'-6" TO 8'-0"	3" x 3" x 6.7 LB.

Our Engineering Department is equipped to render valuable advice on the construction of roofs. Consult them without obligation. *Pyrobar* Roof Decks can be furnished in place ready for any kind of roof covering.

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